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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,071	10/29/2003	Cynthia B. Robinson	02486.0071.NPUS01	9181	
21971 WILSON SON	7590 07/23/2007 JSINI GOODRICH & ROS	EXAM	EXAMINER		
650 PAGE MILL ROAD			. RAMACHANDRAN	. RAMACHANDRAN, UMAMAHESWARI	
PALO ALTO, CA 94304-1050			ART UNIT	PAPER NUMBER	
			1617		
•				<u> </u>	
			MAIL DATE	DELIVERY MODE	
	•		07/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/698,071	ROBINSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Umamaheswari Ramachandran	1617				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04 M	av 2007.					
<u> </u>	action is non-final.					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	·					
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4,5 and 9-17</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	•					
6)⊠ Claim(s) <u>1,2,4,5 and 9-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	·				
Application Papers						
9) The specification is objected to by the Examine	•					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Evaminer				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	·	• •				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1.☐ Certified copies of the priority documents	s have been received.	•				
2. Certified copies of the priority documents		on No.				
3. Copies of the certified copies of the prior						
application from the International Bureau	(PCT Rule 17.2(a)).	,				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)		·				
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date	6) Other:					

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#### **DETAILED ACTION**

Applicants' election of group I, claims 1-5, 9-17 without traverse in the reply filed on 3/6/2007 is acknowledged. Applicants' have elected the following species with traverse (received in the office on 5/4/2007). 1) non-glucocorticoid steroids---dehydroepiandrosterone-sulfate (DHEA-S) 2) tyrosine kinase inhibitor – 4-(4-benzyloxyanilino)-6-(N-methylimidazol-5-yl)pyrido[3,4-d]pyrimidine, 3) Ubiquinones-formula (II) claim 6, n=I 0. Claims 3, 6-8, 18-21 are withdrawn from consideration. Claims 1, 2, 4-5, 9-17 read on the elected species and are pending.

## Response to Remarks

Applicants' have argued that non-elected species would not require a burdensome search. In response, the instant application contains claims are directed to the following patentably distinct species: the species of non-glucocorticoid steroids; the species of tyrosine kinase inhibitor; the species of ubiquinones. The species of non-glucocorticoid steroids, tyrosine kinase inhibitor, and ubiquinones are independent or distinct because they are different chemical compounds with different structures, chemical and physical properties, bioavailabilities, pharmacokinetic profiles, and pharmacological efficacy. Because the species have different structures and properties, different searches are required for each species, which presents a substantial burden to the Office. The restriction requirement is made final.

### **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct

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from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 2, 4-5, 9-17 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-6,10-18 of copending Application No. 10/923,328. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the instant application and the co-pending application teach a pharmaceutical composition comprising the first active agent which is one of non-glucocorticoid steroid and a second active agent which is a tyrosine kinase inhibitor. The instant application teaches non-glucocorticoid steroid species encompassed by the genus non-glucocorticoid steroid compounds taught by the co-pending application. The claims (1, 2, 4-5, 9-17) of the instant application fall within the scope of the claims 1-6,10-18 of the co-pending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said

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subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4-5, 9-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nyce (2002/0032160) in view Cockerill et al (US 6,169,091).

Nyce teach a composition and various formulations comprising therapeutic amounts of non-glucocorticoid steroid of formula I (para 0018) wherein R1 of formula I is hydrogen or SO2OM, wherein M comprises H, Na, sulfatide etc (para 0019). The reference further teaches that the composition includes the compounds of formula I such as DHEA, analogue thereof or salt thereof such as dihydroepidandrosterone sulfate, and/or a ubiquinone of formula II (elected species) or salt thereof, and a pharmaceutically or veterinarily acceptable carrier or diluent that are useful for treating bronchoconstriction, respiratory tract inflammation, allergies, asthma etc (see Abstract, para 0023, p 7, claim 1, p 8, claims 2-7, 11 and 14, p 9, claim 52). The reference further teaches that the compositions can be administered by generating an aerosol or spray comprised of respirable, inhalable, nasal or intrapulmonary delivered particles ranging from 10 to about 100 u in size (p 8, claims 35, 37, 39). The reference further teaches a kit comprising such formulation and a delivery device, comprising an inhaler wherein the formulation comprises an inhalable, respirable, intrapulmonary or nasal formulation and the inhaler comprises a nebulizer or insufflator that delivers individual premetered doses of the formulation (p 9, claims 42, 43-47).

The reference does not teach a second agent tyrosine kinase inhibitor in the composition.

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Cockerill et al teach the elected species, 4-(4-benzyloxyanilino)-6-(N-methylimidazol-5-yl)pyrido[3,4-d]pyrimidine as a a tyrosine kinase inhibitor and the pharmaceutical composition comprising the compounds of tyrosine kinase inhibitors and their use in the treatment of disorders such as asthma (see Abstract, p11, lines 62-63, col. 32, claims 9, 15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to add a tyrosine kinase inhibitor such as 4-(4-benzyloxyanilino)-6-(Nmethylimidazol-5-yl)pyrido[3,4-d]pyrimidine in a composition comprising DHEA and ubiquinone. The motivation to do so is provided by Cockerill et al. Cockerill et al. teach a pharmaceutical composition comprising tyrosine kinase inhibitors to be useful in the treatment of asthma. One of ordinary skill in the art would have been motivated to add a tyrosine kinase inhibitor to a composition comprising DHEA and ubiquinone in the treatment of a respiratory condition such as asthma because prior art teaches both the compositions to be useful in the treatment of asthma and one can expect success in achieving a pharmaceutical composition comprising all the three components (a nonglucocorticoid steroid, DHEA sulfate, a ubiquinone and a tyrosine kinase inhibitor) and further can expect additive or synergistic effects in the combination therapy of asthma. The examiner respectfully points out the following from MPEP 2144.06: "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose....[T]he idea of combining them flows logically from their, having

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been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069,-1072 (CCPA 1980).

#### Conclusion

No Claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Umamaheswari Ramachandran whose telephone number is 571-272-9926. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER